

## Outdoor Splitters and Directional Couplers



**N4212**

**Two Way Splitter**



**N4213**

**Three Way Splitter**



**N4221**

**One Way Directional Coupler**



**N4231**

**Power Insertor**



**N4312**

**Two Way Splitter**



**N4313**

**Three Way Splitter**



**N4321**

**One Way Directional Coupler**



**N4331**

**Power Insertor**

### FEATURES AND SPECIFICATION

- Aluminum alloy housing is finished with a baked acrylic paint
- FR4 PCB for consistency of specifications in all bandwidth
- High quality ferrites, SMD resistors and capacitors
- Return loss all ports: 5-750MHz:18dB, 750-1000 MHz: 16dB
- Hum modulation at 10 Amps: 70dB min
- All port power passing: 15 Amps 60VAC
- Impedance: 75  $\Omega$  all ports
- Aerial or pedestal installation with 5/8" port entry
- The 100dB RF integrity is maintained by the use of tongue and groove design and with a stainless steel mesh RF gasket.

| Item<br>Model<br>MHz |   | BR<br>LOSS | INSERTION LOSS (max) |        |         |          | ISOLATION LOSS (min)    |       |        |         |          | RETURN<br>LOSS (min) |
|----------------------|---|------------|----------------------|--------|---------|----------|-------------------------|-------|--------|---------|----------|----------------------|
|                      |   |            | 5-42                 | 42-470 | 470-862 | 862-1000 | 5-15                    | 15-42 | 42-470 | 470-862 | 862-1000 |                      |
| SPLITTER             |   |            |                      |        |         |          |                         |       |        |         |          | 5-65MHz:<br>18dB     |
| N4212/N4312          |   |            | 3.6                  | 4.0    | 4.6     | 4.8      | 25                      | 30    | 30     | 26      | 25       | 65-470MHz:<br>20dB   |
| N4213                | H |            | 3.6                  | 4.0    | 4.6     | 4.8      | 24                      | 30    | 29     | 26      | 26       |                      |
| N4313                | L |            | 6.8                  | 7.2    | 7.6     | 8.0      | 24                      | 30    | 29     | 26      | 26       | 470-860MHz:<br>18dB  |
| N4213B/N4313B        |   |            | 5.5                  | 5.7    | 6.6     | 7.0      | 24                      | 30    | 25     | 28      | 26       |                      |
| DIRECTIONAL COUPLER  |   |            |                      |        |         |          | OUT to BR ISOLATION min |       |        |         |          | 860-1000MHz:<br>18dB |
| N4221/N4321-08       |   | 08±1.0     | 1.6                  | 2.2    | 2.6     | 2.8      | 25                      | 35    | 27     | 25      | 25       |                      |
| N4221/N4321-12       |   | 12±1.0     | 1.2                  | 1.5    | 2.0     | 2.2      | 25                      | 32    | 30     | 28      | 26       |                      |
| N4221/N4321-16       |   | 16±1.0     | 1.0                  | 1.4    | 1.9     | 2.0      | 31                      | 35    | 28     | 26      | 25       |                      |
| POWER INSERTER       |   |            |                      |        |         |          | RF to AC Isolation      |       |        |         |          |                      |
| N4231/N4331          |   |            | 0.6                  | 0.6    | 0.8     | 0.8      | 68                      | 70    | 70     | 65      | 60       |                      |